

NEW SPECIES OF ARENARIA AND MINUARTIA

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These new species have been extracted from a thesis, Taxonomic studies in the Alsinoideae, submitted for the Degree of Ph.D. at Edinburgh University, 1960.

Arenaria antitaurica McNeill, sp. nov.

Ab *A. uninervia* McNeill cui proxima, foliis multo angustioribus, ramulis sterilibus sub anthesi bene evolutis (1–2.5 cm. longis) e caudiculis emergentibus distinguenda; in var. *intermedia* McNeill ad *A. kotschyana* Fenzl approximata, sed margine foliorum ut videtur evenuloso differt.

Herba perennis, pulvinata. *Planta* ex toto pilis brevibus simplicibus vel glandulosis vestita. *Caudex* \pm gracilis, 1.25–1.75 mm. diam., in caudiculos fragiles numerosos foliis persistentibus mortuis superne praeditos transiens. *Caudiculi* 1–10 cm. longi, in ramulos steriles et floriferos abeuntes. *Ramuli steriles* sub anthesi 1–2.5 cm. longi, inferne foliis 1–3-jugis \pm remotis praediti, superne foliis 2–3-jugis rosulam formantibus. *Ramuli floriferi* ad 4 cm. longi, in parte inferiore jugis foliorum 2–4 \pm aequaliter disjunctis turiones novellos steriles e foliolis 2–4 fasciculatis compositos interdum subtendentibus praediti. *Folia* vena mediana prominente et per laminam venis multis tenuissimis anastomosantibus, eis ad marginem non validius evolutis; folia matura superiora 8–10 mm. longa, lineari-lanceolata vel linearia, latitudine 5–7-plo longiora, sessilia, apice acuta vel etiam acuminata. *Inflorescentia* ad 2 cm. longa, floribus 1–2 instructa; bracteae anguste triangulares, ad 3 mm. longae, membranaceo-marginatae; pedicelli 5–15 mm. longi. *Sepala* vena mediana prominente ad apicem percurrens, 3.5–4 mm. longa, in forma et textura gradatim inaequalia, venis lateralibus saepe 6 inconspicuis; sepalum extimum lanceolatum (latitudine 3–3.5-plo longius) acuminatum, leviter carinatum fere omnino herbaceum; sepalum intimum ovatum (latitudine c. duplo longius), acutum vel acuminatum, \pm prominenter carinatum, herbaceum sed late membranaceo-marginatum, ad basim sub-coriaceum. *Petala* ovata vel ovato-lanceolata, cuneata, 5–5.5 mm. longa et 2–2.25 mm. lata, apice obtusa. *Stamina* 10, exteriora basi glandulis minutissimis praedita; filamenta 4 mm. longa; antherae, 0.6 mm. longae. *Ovarium* globosum, 1.25 mm. diam.; styli 2.5 mm. longi. *Capsula* 3–3.5 mm. longa, calycem \pm aequans, dentibus 6 aequalibus dehiscens; ovula c. 30. *Semina* vix matura c. 15, probabiliter rugulosa.

Key to Varieties

Leaves with the marginal vasculature no more developed than the extremely faint traces anastomosing throughout the lamina; sepals 3.5–4 mm. long

var. *antitaurica*

Leaves with a distinct but very weak pair of marginal veins (not visible macroscopically); sepals 4–5 mm. long var. *intermedia*

var. *antitaurica*

TURKEY: Cataonia: prov. Maraş, distr. Göksun: Binboğa dağ in ravine above Yalak, 2200 m, rocks, 17 July 1952, Davis, Dodds & Çetik (D. 20130—holo. E, iso. K).

var. *intermedia* McNeill, var. nov.

A typo sepalis longioribus (4.5–5.5 mm.) venis marginalibus ceteris lateralibus anastomosantibus multo validioribus differt, venis lateralibus omnibus gracillimis ab oculo vix distinguendis.

TURKEY: Cataonia: in monte Nimrud Dag prope vicum Kjachta districtu Mamuret-ül-Asis, in declivitate septentr.-occid. rupibus, substrato calcareo: ca. 2000–2200 m.; 12 vii 1910, Handel-Mazzetti 2060 (sub *Arenaria imolea* Boiss. cf. Ann. naturh. Hofmus. Wien xxvi, 149: 1912—holo. WU).

Arenaria uninervia McNeill, sp. nov.

Ab *A. antitaurica* McNeill, cui proxima, foliis multo latioribus et ramulis omnino sterilibus sub anthesi perpaucis vel nullis (rosulis sterilibus evolutis ex axillis foliorum ramorum floriferorum emergentibus) distinguenda; in forma foliorum ad *A. creticam* Spreng. accedit sed petiolis nullis, sepalis acutis vel acuminatis, petalis latioribus sepalis sesqui-longioribus (nec \pm duplo longioribus) facile distinguenda.

Herba perennis, pulvinata. *Planta* ex toto pilis brevibus glandulosis (et eglandulosis?) dense vestita. *Caudex* gracilis vel mediocriter crassus, 1–2.5 mm. diam., in caudiculos \pm fragiles numerosos foliis persistentibus mortuis superne oblectos transiens. *Caudiculi* ad 12 cm. longi in ramulos fere omnes floriferos abeuntes. *Ramuli* ad 4 cm. longi, foliis 3–6-jugis sub anthesi \pm aequae disjunctis praediti; folia ramulos steriles novellos vel rosulas saepe subtendentia. *Folia* matura superiora 5–11 mm. longa, ovato-lanceolata, latitudine 3–4-plo longiora, sessilia, apice acuta; folium costa prominenti praeditum, lamina venis lateralibus multis anastomosantibus tenuissimis (vix ab oculo distinguendis), eis ad marginem aliis non magis evolutis. *Inflorescentia* (1–)2(–3)—flora; bractae infimae 2–5 mm. longae, anguste triangulares, membranaceo-marginatae, vel (in typo) foliosae sed minores; bractae superiores breviores, 1–3 mm. longae, semper membranaceo-marginatae; pedicelli 3–10 mm. longi. *Sepala* c. 3.5–4 mm. longa, in forma et textura gradatim inaequalia, vix (in typo) vel aliquantum carinata sed vena mediana prominenti ad apicem percurrente, venis lateralibus (6–8) inconspicuis; sepalum extimum ovatum vel ovato-lanceolatum (latitudine 2–3-plo longius), acutum, margine angustius membranaceo excepto, herbaceum; sepalum intimum latius ovatum (latitudine 1.7–2-plo longius), apice obtusius (in typo), ad marginem latius membranaceum (0.4 mm. latum), ad basim subcrassius. *Petala* ovata vel ovato-lanceolata, 5–6 mm. longa, 2.25–2.75 mm. lata. *Stamina* 10, exteriora basi glandulis minutissimis praedita; filamenta 4 mm. longa; antherae 0.75 mm. longae. *Ovarium* globosum, 1.5 mm. diam.; styli 3 mm. longi. *Capsula* ignota.

TURKEY: Cataonia: Prov. Adana. distr. Fek: Bakir dağ nr. top of Sencan Dere, 2200 m., 30 June 1952, Davis, Dodds & Çetık (D.19413—holo. E, iso. K).

***Arenaria speluncarum* McNeill, nom. et stat. nov.**

Syn.: *A. graveolens* Schreb. var. *grandiflora* Boiss., Fl. Orient. i, 701 (1867) ("β").

Species affinitatis incertae; floribus tenerrimis foliis caulinis suborbiculatis ad *A. rotundifoliam* et affines approximatis, sed foliis acutis sepalis aliquanto prominenter nervatis inflorescentiis semper terminalibus recedit; fortasse affinis *A. sipyleae*, quam habitu sepalis aliquanto prominenter nervatis revocat, sed foliis caulinis suborbiculatis capsula calycem excedente facile distinguenda. A speciebus orientalibus omnibus affinis petalis sepalis fere duplo longioribus seminibus obscure reticulatis (nec papillosis nec punctatis) distinguitur.

Slender perennial herb, rather matted at the base, sparsely pubescent throughout. Stems ascending, up to 25 cm. long, bearing 4–8 pairs of leaves, occasionally branching below the inflorescence. Leaves thin, light green in colour, abruptly contracted at the base into a short distinct petiole (2–3 mm. long in the basal leaves, becoming progressively shorter up the stem); the middle stem leaves \pm orbicular but with a broadly acute apex, the basal and upper leaves narrower but at least broadly ovate (up to twice as long as broad). Inflorescence very lax, 4–10-flowered; bracts small (c. 1–2 mm.) ovate, very much smaller than the uppermost leaves, pedicels long (1–3 cm.), slender. Sepals 3–3.5 mm. long, lanceolate, 3 times as long as broad, subacute with 3 rather prominent veins and a number (2–5) of indistinct ones. Petals oblanceolate, c. 6 mm. long and 2 mm. broad. Stamens 10; filaments 2.5–3 mm. long; anthers 0.5 mm. long. Capsule cylindrical, 5 mm. long, splitting to at least half-way by 6 equal valves. Seeds c. 12, 0.5–0.6 mm. long, with numerous small rectangular or orbicular "cells" on the testa (40–80 μ \times c. 40 μ) without any markings or protuberances. ("obscurely reticulate").

Type: TURKEY: Cilicia: In valle speluncarum supra Ermenek Isauriae—1845 ("in rupibus Tauri, Isaurici"), Heldreich (as *A. pubescens* d'Urville var. *grandiflora*—holo. G, iso. E, K).

***Arenaria angustifolia* McNeill, sp. nov.**

A speciebus orientalibus subgeneris *Arenariae*, praeter *A. sabulineam*, *A. kotschyana* et aliquando *A. libanoticam* foliis omnibus anguste linearibus distinctissima. Ab *A. sabulinea* habitu perenni et planta glabra, ab *A. kotschyana* foliis uninerviis et habitu multo graciliore, et ab affini *A. libanotica* foliis semper linearibus numquam lineari-spathulatis vel lanceolatis seminibus laeviusculis non fimbriatim marginatis facile distinguenda.

Herba perennis gracillima caespitosa. Planta ex toto glabra. Caudex \pm gracilis, c. 1 mm. diam., in caudiculos gracillimos numerosos foliis vel basibus foliorum persistentibus mortuis praeditis abiens. Caudiculi 1–2 cm. longi in ramulos steriles breves (1–2 cm.) et floriferos longos (6–15 cm.) abeuntes. Ramuli inferne foliis 1–2 jugis approximatis superne foliis remotis 1–2 jugis (ramulis sterilibus) vel 4–5 jugis (ramulis floriferis) praediti. Folia uninervia, 4–15 mm. longa, linearia, latitudine 4–15-plo

longiora (ea caulina 6–15 mm. longa et latitudine 8–15-plo longiora). *Inflorescentia* ad 4 cm. longa floribus 1–6 instructa; bracteae anguste triangulares 1–3 mm. longae herbaceae; pedicelli 8–25 mm. longi, tenuissimi. *Sepala* ovata vel ovato-lanceolata, acuminata, 3–5-nervia (nervo mediano prominentiore), carinata, late membranaceo-marginata; sepalum extimum 2.5–3 (–3.25) mm. longum, ovato-lanceolatum, latitudine 2.75–3-plo longius; sepalum intimum brevius (ad 2.2 mm.) latius (latitudine c. duplo longius), latius membranaceo-marginatum et frequenter tantum trinervium. *Petala* 3.75–4.5 mm. longa, ovata, latitudine c. 2.5-plo longiora. *Stamina* 10, exteriora basi glandulis minutissimis praedita; filamenta 2.5–3 mm. longa; antherae 0.4–0.5 mm. longae. *Ovarium* globosum; styli c. 1.5 mm. longi, caduci; ovula 20–30. *Capsula* 2–2.5 mm. longa, calyce brevior, dentibus vel valvis 6 aequalibus dehiscens. *Semina* c. 5–10, 0.5 mm. longa; cellulae haud prominentes mediam papillam minutissimam (c. 8 μ longam) gerentes)

TURKEY: Cilicia: Prov. Konya, distr. Ermenek (Cilicia Trachea): Hamitsaydi boğaz between Sarivadi and Beşkuyu; 1500–1700 m., mossy rocks, perennial, 16 March 1949, P. H. Davis 16227 (holo. E, iso. K).

***Arenaria kurdica* McNeill, sp. nov.**

Ab affini *A. pamphylica* sepalis parvis trinerviis petala subaequantibus nervis lateralibus sepalorum \pm marginalibus divergentibus capsula subglobosa et ab *A. sabulinea* foliis ovatis vel lanceolatis nec linearibus petalis minoribus facile distinguenda.

Herba annua humilis, ad 5 cm. alta. *Planta* ex toto pilis brevibus simplicibus vel glandulosis vestita. *Folia* 10–16 mm. longa, ovata vel ovato-lanceolata, in petiolum (3–4 mm. longum) sensim contracta, pauca, sub anthesi marcescentia. *Inflorescentia* divaricata, floribus 5–9 instructa; bracteae foliosae lanceolatae, infimae 8 mm. longae; pedicelli 4–7 mm. longi. *Sepala* 2–2.5 mm. longa, ovato-lanceolata vel lanceolata (extimum latitudine 2.5–3.5-plo longius), trinervia; nervi laterales nervo medio indistinctiores divergentes submarginales. *Petala* 2–2.5 mm. longa, lanceolata, apice brevissime bifido. *Stamina* 10; filamenta 0.5–0.8 mm. longa; antherae 0.2–0.3 mm. longae; granula 34–38 μ diam. *Capsula* subglobosa (latitudine ad 1.25-plo longior), calycem vix excedens, valvis 6 dehiscens; ovula c. 15–25. *Semina* vix matura c. 12–18, probabiliter rugulosa. IRAQ: Erbil: Sefin Dagħ above Shaqlawa, 1200 m.; oak forest formation, limestone crats (sic) N. aspect; flowers white; frequency occasional, 9 May 1947, J. B. Gillett (National Herbarium of Iraq 18076—holo. K).

***Arenaria angustisepala* McNeill, sp. nov.**

Species valde distincta, ab *A. szowitsii* et *A. holostea* foliis brevibus setaceis, non longis linearibus, sepalis angustioribus planta dense caespitosa humili caulibus minus quam 5 cm. altis 1(–2)-floris praeditis facile distinguenda; ab *A. armeniaca*, cui forma foliorum et sepalorum aliquantum approximatur, glandulis staminum 5 indivisis floribus plerumque solitariis nec paucis dense congestis et praesertim habitu humili caespitoso differt.

Herba perennis, dense caespitosa vel subpulpinata, humilis, ad 6 cm. alta. *Caudex* \pm gracilis, 2–4 mm. diam., in caudiculos numerosos intortos



PLATE 19. *Arenaria speluncarum* McNeill (isotype).



PLATE 20. *Arenaria angustisepala* McNeill (holotype).



Type Specimen

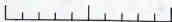
Arenaria davisi McNeill

Det. J. McNeill 19 JAN 1960

Davis 25,604, O. P. Davis

Arenaria

ROYAL BOTANIC GARDEN



cm.

Turkey. Prov. Van dist. Baghalet
Ispirin Dag, 3400 m. Rock crevices.
Fls. white. 31 July 1954.

PLATE 21. *Arenaria davisi* McNeill (holotype).

transiens. *Caudiculi* 3–10 cm. longi, foliis persistentibus mortuis superne praediti, in rosulas steriles paucas et caules floriferos unum vel paucos abeuntes. *Rosulae* steriles superne parce (in typo) glanduloso-pubescentes foliis 4–7-jugis praeditae. *Caules* breves 3–5 cm. longi, foliis 3–5-jugis breviter (c. 0.75 mm.) connatis \pm aequaliter disjunctis praediti. *Folia* setacea, 5–10 mm. longa et 0.3–0.6 mm. lata, apiculata, breviter ciliata et minute et parce puberula (eglandulis); omnia, pari caulino supremo excepto plerumque viridia, sed marginibus membranaceis angustis ad basim praedita; folia caulina suprema bracteis similia sed longiora et angustiora. *Inflorescentia* 1(–2)–flora (raro tertio rudimentario); bractee lanceolatae longe acutae, c. 7 mm. longae et 2 mm. latae, carinatae, late scarioso-marginatae, glabrae; pedicelli 5–10 mm. longi dense glanduloso-puberuli. *Sepala* glabra, \pm aequalia, lanceolata, c. 7.5 mm. longa et c. 2.5 mm. lata, carinata, acuta vel obtusa, carina excepta scariosa; carina herbacea, uninervia (vere nervis paucis conjunctis), ad basim 1 mm. lata, supra angustior, ad apicem percurrent. *Petala* obovata vel spatulata truncata, 9–10 mm. longa et c. 4.5 mm. lata. *Stamina* 10, exteriora basi glandulis minutis praedita; filamenta c. 4 mm. longa; antherae c. 0.75 mm. longae. *Ovarium* ovoideum c. 2 mm. longum; styli c. 2.5 mm. longi; ovula c. 30. *Capsula* vix matura c. 6 mm. longa, valvis 6 aequalibus dehiscens. *Semina* ignota.

Key to Varieties

Sepals glabrous; c. 7.5 mm. long, all ovate lanceolate (outer and inner \pm equal in size and shape); leaves eglandular-puberulent; stems glabrous or sparsely glandular-pubescent below; bracts glabrous; pedicels densely glandular-puberulent

var. *angustisepala*

Sepals glandular-pubescent, 5.5–6 mm. long, outer narrowly lanceolate and inner ovate; leaves glandular-puberulent; stems densely glandular-pubescent throughout; bracts and pedicels densely glandular-pubescent

var. *glandulosa*

var. *angustisepala*

TURKEY: Prov. Bitlis/Van: mt. 10 km. S.E. of Pelli, 2590 m., 8 July 1954, Davis & O. Polunin (D.22524—holo. E, iso. K).

var. *glandulosa* McNeill, var. nov.

A typo puberulentia glandulosa foliorum caulibus ex toto et bracteis dense glanduloso-pubescentibus pedicellis glanduloso-pubescentibus (nec glanduloso-puberulis) sepalis brevioribus (5.5–6 mm.) gradatim inaequalibus glanduloso-pubescentibus differt.

Sepalum extimum anguste lanceolatum (latitudine c. 4-plo longius) aliquantum anguste scarioso-marginatum ex toto glanduloso-pubescentibus; sepalum intimum ovatum (latitudine c. duplo longius) latissime scarioso-marginatum, tantum in carina glanduloso-pubescentibus.

TURKEY: Prov. Van, dist. Gevaş: Artoş Dağ, 3048 m., rock crevices, fls. white, 15 July 1954, Davis & O. Polunin (D.22818—holo. E, iso. K).

Arenaria davisii McNeill, sp. nov.

Species valde distincta; caulibus floriferis brevibus non foliatis inflor-
escentiis glanduloso-pubescentibus plerumque unifloris et pedicellis
sublongis sepalis subacutis petalis cuneatis bene notatur. Ab affini *A.*

tetrasticha sepalis longioribus et angustioribus foliis non scarioso-marginatis etiam differt.

Herba perennis caespitosa vel subpulvinata. *Caudex* crassus, 10–15 mm. diam., in caudiculos numerosos lignosos contortos abiens. *Caudiculi* 2–9 cm. longi, 1–4 mm. diam., foliis persistentibus mortuis canis superne obtecti, in rosulas steriles et floriferas transeuntes. *Rosulae* foliis 3–6-jugis dense congestis instructae, saepe caulem floriferum brevem (1.5–2.5 cm.) non foliatum glanduloso-pubescentem gerentes. *Folia* brevia (4–10 mm.), subulato-setacea triquetra, apiculata; margines minute et parce hispiduli. *Inflorescentia* ex toto dense glanduloso-pubescentia, 1(–3)-flora; bractae 2.5–3.5 mm. longae, lanceolatae, anguste acuminatae, scarioso-marginatae; pedicelli 10–15 mm. longi. *Sepala* purpurascencia, dense glandulosa, enervia (vena mediana indistincta et venis lateralibus 1–2-jugis indistinctissimis), 3–4 mm. longa; sepalum extimum lanceolatum, subacutum, anguste membranaceo-marginatum; sepalum intimum late ovatum, obtusum, latissime membranaceo-marginatum. *Petala* cuneata, 6–8 mm. longa, 2.5 mm. diam., calycem excedens, dentibus duplo stylorum exteriora basi glandulis minutis praedita; filamenta 3.75–4.5 mm. longa; antherae 0.7 mm. longae. *Ovarium* ovoideum, 4 mm. longum, 2 mm. diam.; styli (2–)3(–5), 2–2.25 mm. longi. *Capsula* longe ovoidea, 5–6 mm. longa, 2.5 mm. diam., calycem excedens, dentibus duplo stylorum numero dehiscens; ovula c. 15–30. *Semina* immatura.

TURKEY: Prov. Van, dist. Başkale: Ispiriz Dağ, 3400 m., rock crevices, fls. white, 31 July 1954, *Davis & O. Polunin* (D.23694—holo. E, iso. K).

***Minuartia gracilis* McNeill, sp. nov.**

Species valde distincta, inter Sectionem *Acutifloras* petalis calycem vix excedentibus (nec multo longioribus) singularis; probabiliter *M. biebersteinii* affinis sed sepalis brevioribus et pedicellis patentibus differt.

Planta gracilis laxae caespitosa glabra (praeter summos pedicellos). *Caudiculi* tenues 0.25–0.5 mm. diam. in caules floriferos transeuntes. (*Caules steriles* ut videtur absentes). *Caules floriferi* 10–15 cm. alti, jugis foliorum 3–5 turiones steriles 2–6 foliatis interdum subtendentibus praediti, inflorescentias terminales 3–5-floras nec non saepe laterales 1–2-floras gerentes. *Folia* anguste linearia 5–12 mm. longa trinervia. *Inflorescentia* laxissima inaequaliter dichasialis; bractae anguste triangulares, herbaceae, prominenter trinerviae; pedicelli late patentes, 15–25 mm. longi, summi parce et minute glanduloso-puberuli. *Sepala* c. 2.5 mm. longa, lanceolata, acuminata, prominenter et \pm aequae trinervia; extimum anguste lanceolatum (latitudine c. 5-plo longius) anguste membranaceo-marginatum; intimum lanceolatum (latitudine c. triplo longius) late membranaceo-marginatum. *Petala* lanceolata (nec oblanceolata) sepalis sublongiora. *Stamina* 10, filamenta 1.8–2 mm. longa; antherae flavae, 0.3–0.35 mm. longae et c. 0.25 mm. latae. *Styli* 3. *Capsula* anguste ovoidea calyce excedens ad apicem in valvis (3–)4 dehiscens (capsula immatura lineis dehiscenciae tantum 3 praedita). *Semina* (immatura) ut videtur c. 0.6 mm. diam. obscure tuberculata, prominenter papillosa vel echinata.

TURKEY: Paphlagonia: Prov. Kastamonu: Küre—Inebolu, 2400 ft. [730 m.], ledges of metamorphic rocks, fl. white, 7 June 1954, *Davis* 21616 (holo. E, iso. K).

Minuartia antilibanotica McNeill, *sp. nov.*

Species valde distincta; a speciebus aliis seriei *Setacearum* Mattf. planta inferne dense tomentosa facile distinguenda; a *M. anatolica* var. *arachnoidea*, probabiliter affini, planta superne omnino glabra calycibus ad basim rotundatis nec truncatis differt.

Planta humilis ad 9 cm. alta. *Caudex* crassus, c. 5 mm. diam., caudiculos numerosos coarctatos emittens. *Caudiculi* ad 2 mm. diam., breves, in caules floriferos abeuntes. *Caules* steriles sub anthesi deficientes; caules floriferi foliis mortuis 3-5-jugis congregatis et superne foliis viridibus 2-4-jugis remotis praediti; caules inferne et margines foliorum inferiorum pilis tenuibus albis bombycinis dense vestiti. *Folia* subulato-setacea 2-4 mm. longa; folia inferiora turiones incipientes (non comparentes) sub anthesi subtendentia. *Inflorescentia* ex toto glabra, laxissima, 6-10-flora; bractee subulatae vel triangulares, \pm late membranaceo-marginatae; pedicelli infimi c. 10 mm. longi; ultimi (flore maturo) 3-5 mm. longi. *Sepala* ovata, latitudine 2-2.5-plo longiora, longe acuta vel subacuminata, 2.5-3 mm. longa. *Petala* lanceolata, latitudine c. 3.5-plo longiora, cuneata, sepalis subaequilonga. *Stamina* fertilia; filamenta c. 2 mm. longa; antherae c. 0.5 mm. longae. *Capsula* ovoidea c. 2.5 mm. longa; valvae 1.3-1.5 mm. latae, ovula 12-18. *Semina* 6-10, subrotundata, c. 0.65 mm. diam., obscure tuberculata, epapillosa.

SYRIA: Damascus: Antilebanon: Sahel (above Nebk), rocks, 1430 m., flrs. white, 21.6.1943, P. H. Davis 6586A (holo. E, iso. K).